

RISK ASSESSMENT MODEL

Host Nations CAS Conference
- Germany -

Mr. André Lagacé

Canada

14-16 June 2000

Presentation Outline

- DND 5 Tier Program
- GQA Surveillance
 - Risk assessment
- Quality Assurance Information System (QAIS) - Conceptual Model
- Demonstration



DND

QA Program

■ 5-Tier Program:

- TIER I Quality Leadership
- TIER II Quality Contracting
- TIER III Quality System Evaluation
- TIER IV Quality Surveillance
- TIER V Quality Performance

GQA Surveillance

- **Process to assess the risks associated with:**
 - **Product**
 - **Contractor**
- **Analysis of those risks**
- **Preparation of the Guidance Document**
- **GQA Surveillance based on risk(s)**

Risk Identification

- **Product Risk:**

physical tolerances, complex processes, specified tests, critical design characteristics and their *consequences of failure*

- **Process Control Identification:**

identification of the processes that would control and mitigate the identified product risk(s)

Risk Identification (next)

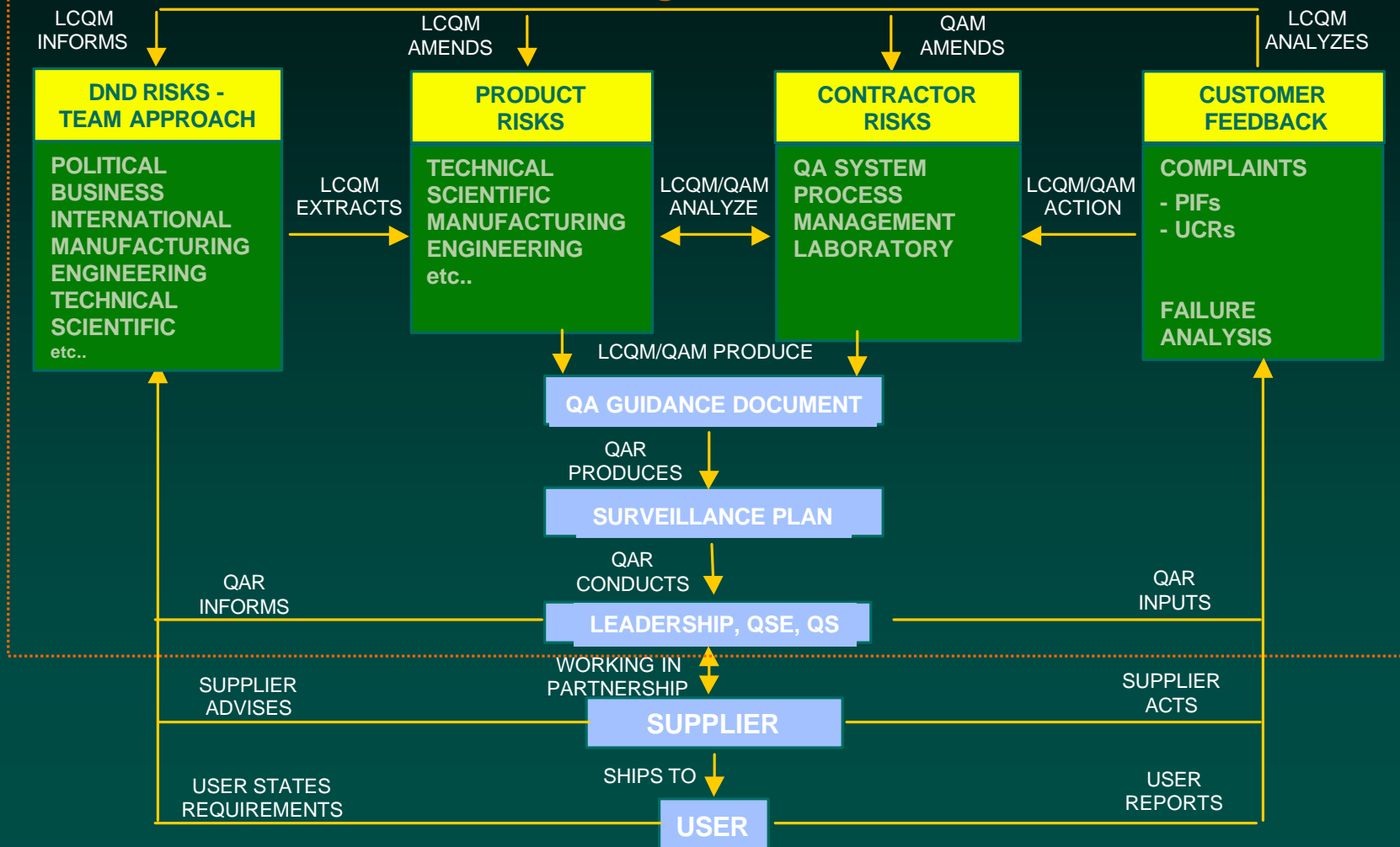
- **Contractor Risk:**
inadequate quality system, history of providing nonconforming product and inexperience in design and/or manufacturing
- **Quality System Elements identification:**
identification of the system elements where a lack of control would have a negative impact on the product/service

Contract Risk Analysis

- **Analysis of the risks associated with a product on a particular contract and the supplier's capability to control that risk.**
- **Compares the product risk against the supplier risk and estimates the supplier's capability to manage the identified risks**

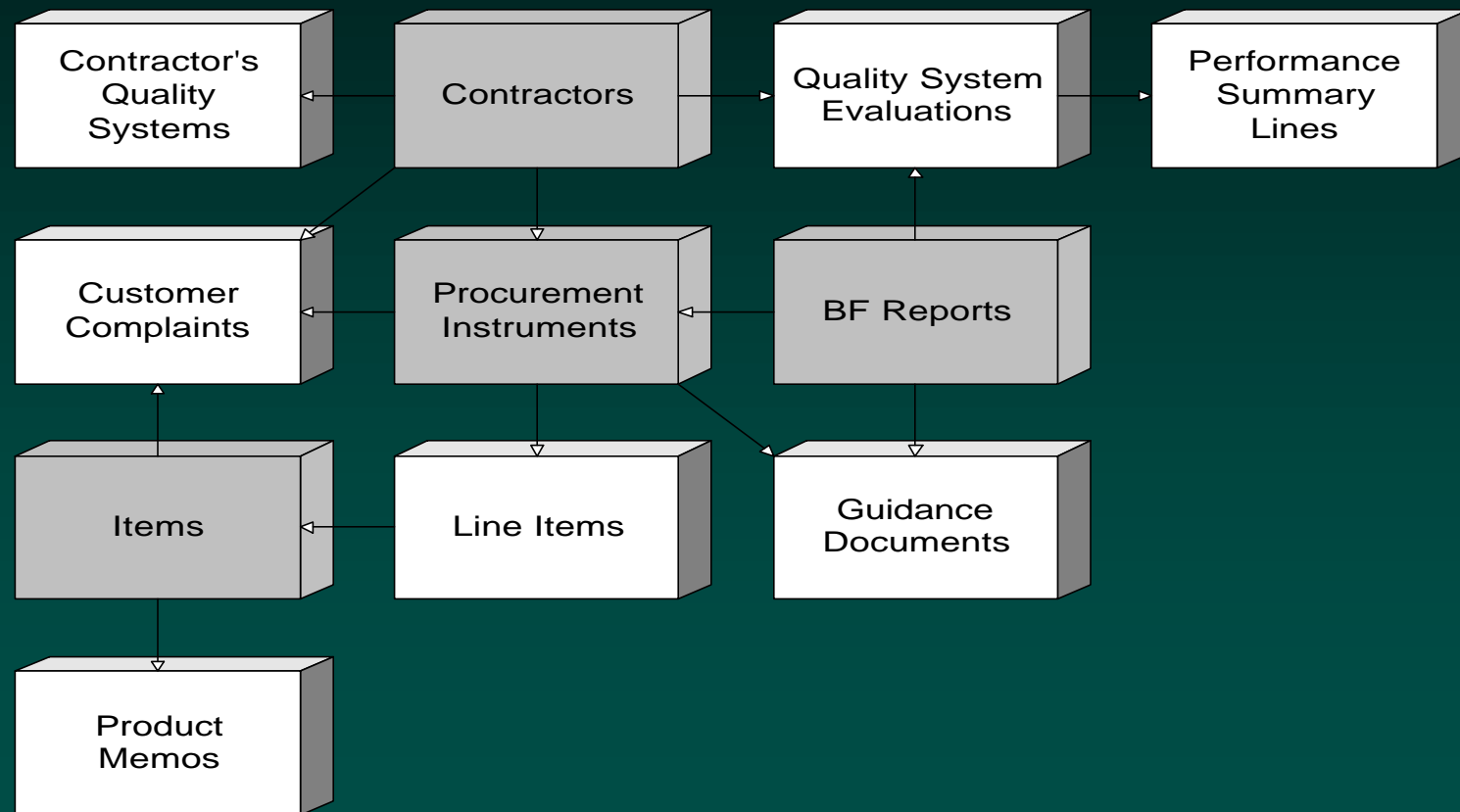
Conceptual Model

QAIS



RELATIONSHIP

QAIS Overview



ITEM DATABASE

- Product application
- Product risk information
- Product surveillance information
- Complaints
- Procurement instruments

CONTRACTOR DATABASE

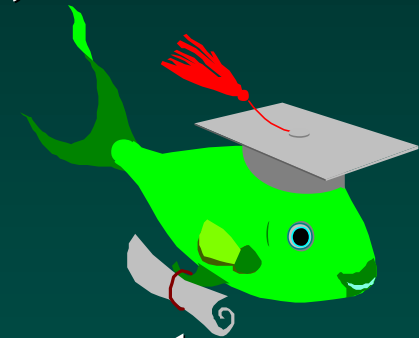
- Quality system data (Registrar)
- Quality system evaluation data (DND)
- Complaints
- Procurement instruments
- Quality observations
- Surveillance planning

PROCUREMENT INSTRUMENTS

- Line items
- Produces
 - Guidance documents
 - Delegations
 - Surveillance planning
 - Quality observations
- Complaints

Guidance Document (GD)

- Used to communicate “specific” risks and surveillance activities
- Jointly developed by the LCQM & QAR with the input from TA, DA, PA Delegator, etc.
- Feedback on planned activities provided
- Opportunity for Quality Improvement in specs, processes, test methods or the contracting process provided



GD Specifics

- Provides info on product & process risks
- Identifies product application
- Provides a summary of risks
- Identifies critical processes and control points
- Identifies witnessing of tests req'd
- Recommends improvements to subsequent contracts

Delegation Preparation

- QAIS contains templates
- System automatically loads RGQA with
 - Contract number
 - Contractor's name and address
 - Delegator's name and phone number
 - Signature block

Any question on - Conceptual Model -

